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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/040,178	11/07/2001	Robert A. Pyles	Mo-6825/MD-01-39-KU	9063	
157 75	90 08/12/2003				
BAYER POLYMERS LLC EXAMINER				NER	
100 BAYER RO PITTSBURGH,	- · ·		EINSMANN, M	EINSMANN, MARGARET V	
•			ART UNIT	PAPER NUMBER	
		•	1751		
			DATE MAILED: 08/12/2003		

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Application No.	Applicant(s)	
Office Action Summary		10/040,178	PYLES ET AL.	
		Examiner	Art Unit	11,00,000
		Margaret Einsmann	1751	
The Period for Re	n MAILING DATE of this communication apenly	pears on the cover sheet with	h the correspondenc address	••
A SHORT THE MAII - Extensions after SIX (i - If the perio - If NO perio - Failure to r - Any reply r earned pat	TENED STATUTORY PERIOD FOR REPI LING DATE OF THIS COMMUNICATION. of time may be available under the provisions of 37 CFR 1. b) MONTHS from the mailing date of this communication. d for reply specified above is less than thirty (30) days, a rejud for reply is specified above, the maximum statutory period reply within the set or extended period for reply will, by statuffectived by the Office later than three months after the mailinent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a repolation of thirty will apply and will expire SIX (6) MONT to cause the application to become ABA	oly be timely filed (30) days will be considered timely. HS from the mailing date of this communic NDONED (35 U.S.C. § 133).	cation.
Status 1)☐ Re	esponsive to communication(s) filed on <u>10</u>	luna 2003		
<u>'_</u>	·	his action is non-final.		
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	nce this application is in condition for allow osed in accordance with the practice unde of Claims			II2 12
4)∐ Cla	im(s) <u>1-4,7,12-19 and 22-24</u> is/are pendir	ng in the application.		
4a)	Of the above claim(s) is/are withdra	awn from consideration.		
5)□ Cla	im(s) <u>1-4,7 and 12-19</u> is/are allowed.			
6) <u></u> Cla	im(s) <u>23</u> is/are rejected.			
	im(s) <u>24</u> is/are objected to.			
8)□ Cla	im(s) are subject to restriction and/	or election requirement.		
Application I	Papers			
9) □ The	specification is objected to by the Examin	er.		
10)□ The	drawing(s) filed on is/are: a) acce	epted or b) objected to by th	e Examiner.	
Ap	oplicant may not request that any objection to t	he drawing(s) be held in abeyar	nce. See 37 CFR 1.85(a).	
11)☐ The	proposed drawing correction filed on	_ is: a)□ approved b)□ dis	sapproved by the Examiner.	
	approved, corrected drawings are required in re	•		
12)□ The	oath or declaration is objected to by the E	xaminer.		
Priority unde	er 35 U.S.C. §§ 119 and 120			
13)□ Ack	knowledgment is made of a claim for foreig	n priority under 35 U.S.C. §	119(a)-(d) or (f).	
a)□ A	Ⅱ b)□ Some * c)□ None of:			
1.[Certified copies of the priority documer	its have been received.		
2.	Certified copies of the priority documer	its have been received in Ap	plication No	
3.□ * See t	Copies of the certified copies of the prication from the International B the attached detailed Office action for a lis	ureau (PCT Rule 17.2(a)).		!
	owledgment is made of a claim for domes	•		cation).
a) 🗌	The translation of the foreign language provided and the foreign language	ovisional application has be	en received.	•
Attachment(s)	<u> </u>		-	
1) Notice of I	References Cited (PTO-892) Draftsperson's Patent Drawing Review (PTO-948) n Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of In	ummary (PTO-413) Paper No(s) formal Patent Application (PTO-152)	·
J.S. Patent and Tradema PTO-326 (Rev. 04		ction Summary	Part of Paper No. 5	

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DETAILED ACTION

This action is in response to the amendment filed 6/10/03. Claims 1-4, 12-19 and 22-24 are pending. Applicant's response has canceled the non-elected claims thereby restricting the claims to the elected invention.

Applicant's amendment has mooted the rejection of claims 1-9 and 12-19 under the second paragraph of 112 as applied on page 4 of the action of 3/28/03.

Applicant's amendment has overcome the rejection of claims 1-4, 7-9, 17 and 18 as anticipated by or in the alternative obvious over Funaki, US 4,310,350. Funaki does not disclose the claimed carrier where R² denotes butyl and R¹ denotes H as now claimed. Applicant's amendment has overcome the rejection of claims 1-4,7-9 and 18 as being anticipated by Bianco et al., US 3,514,246.

Applicant's amendment has resulted in the following new grounds of rejection.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 22-23 are rejected under 35 U.S.C. 103(a) as being unpatentable over Funaki, US 4,310,350.

Funaki et al disclosed a process of dyeing polymeric materials including polycarbonates with dyeing compositions comprising surfactants. See abstract. In column 4 lines 27 et seq. they give examples of non-ionic surfactants reading on

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applicant's claimed carrier, polyoxyethylene alkyl ether type, R-O-(CH₂CH₂0)_nH (line 30) and polyoxyethylene alkylaryl ether type (lines 33-38). In each instance, R is equal to 6 to 25 carbon atoms and n is equal to an integer having from 6 to 25 carbon atoms and n is equal to an integer having a value of 2-50. See col 5 lines 55-58. Accordingly, both of the compounds fall within the scope of the carrier as claimed; both are surfactants. The substrate material may be selected from several disclosed polymeric materials including the claimed polycarbonates, polyester and polyalkyl acrylates. See col 7 line 42 to col 8 line 30. Example 2 discloses using an aromatic polycarbonate as the substrate (Col 9 lines 63 et seq.) and example 4 discloses using allyl diglycol carbonate.

Example 4 discloses a process of dyeing a plate of polymerized diethylene glycol bis-allyl carbonate (CR-39) which has a non-fogging coating by heating in an aqueous dyeing bath comprising, 20 g water, 80g of a polyoxyalkyl ether surfactant and 4 grams of an azo type- quinone type blended disperse dye. Note that in example 4, patentee does not suggest mixing the dye and carrier together before adding water as claimed in claim 22, and yet the resultant article to the heated dyebath results in an article which is transparent and colored uniformly.

The subject matter would have been obvious to the skilled artisan at the time the invention was made because the resulting composition in which the article is immersed is the very same, thus resulting in equivalent dyeing results, absent evidence to the contrary and patentee shows that the process is successful when the three items are combined at 95° and used to dye a CR-39 article.

Claim Objections

Claim 22 is objected to because of the following informalities: Section b of claim 22 is at the bottom of page 4 of the amendment and is repeated at the top of page 5..

Appropriate correction is required.

Allowable Subject Matter

Accordingly claims 1-4, 7, 12-19 and 24 are allowed.

Claim 24 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any

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extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Margaret Einsmann whose telephone number is 703-308-3826. The examiner can normally be reached on 7:00 AM -4:30 PM M-Th and alternate Fridays.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Yogendra Gupta can be reached on 703-308-4708. The fax phone numbers for the organization where this application or proceeding is assigned are 703-872-9310 for regular communications and 703-872-9311 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0661.

Margaret Einsmann Primary Examiner

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August 11, 2003